

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1	("20060259894").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/12/01 13:06
S2	46921	effector	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/11/30 14:53
S3	23027	(evolution\$7 genetic) with (program\$4 algorithm)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/11/30 14:54
S4	42	S2 same S3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/11/30 14:54
S5	1320	dynamic with neur\$4 with network	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/12/01 16:27
S6	34339309	(@ad<"20030324" @pd<"20030324")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/11/30 14:55
S7	25	S4 and S6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/11/30 14:57
S8	71	mutat\$4 with neur\$4 with network	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/11/30 14:59
S9	44	S6 and S8	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/11/30 17:52

## EAST Search History

S10	1	("20060259894").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/12/01 13:07
S11	1	S10 and (static\$4 adj2 program\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/12/01 14:11
S12	0	S10 and ("at least partially")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/12/01 14:12
S13	1	S10 and ("least partially")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/12/01 14:12
S14	1320	dynamic with neur\$4 with network	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/12/01 16:27
S15	71	mutat\$4 with neur\$4 with network	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/12/01 16:27
S16	8	S14 and S15	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/12/01 16:27
S17	34339309	(@ad<"20030324" @pd<"20030324")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/12/01 16:27
S18	2	S16 and S17	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/12/01 16:30

## EAST Search History

S19	382710	mutat\$4 evolv\$5 evolut\$8	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/12/01 16:33
S20	866	S19 with cyclic	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/12/01 16:33
S21	7299	S19 with (cycle or cyclic)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/12/01 16:33
S22	16073	graph with (cycle or cyclic)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/12/01 16:33
S23	100	S21 same S22	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/12/01 16:34
S25	15	("20040128004" "3950733" "4660166" "496234 2" "5155802" "5325464" "5369731" "5422983" " "5524175" "5524176" "5619618" "6049793" "6 332137" "6751601" "6754645").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/12/01 16:34
S26	34340525	(@ad<"20030324" @pd<"20030324")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/12/04 11:54
S27	382766	mutat\$4 evolv\$5 evolut\$8	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/12/04 11:54
S28	7299	S27 with (cycle or cyclic)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/12/04 11:54

## EAST Search History

S29	16074	graph with (cycle or cyclic)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/12/04 11:54
S30	100	S28 same S29	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/12/04 11:54
S31	82	S30 and S26	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/12/04 12:00
S32	15	("20040128004" "3950733" "4660166" "4962342" "5155802" "5325464" "5369731" "5422983" "5524175" "5524176" "5619618" "6049793" "6332137" "6751601" "6754645").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/12/04 11:59
S33	0	S31 and S32	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/12/04 11:59
S34	70	S31 and (elements neur\$4 effectors process\$1rs)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/12/04 12:01
S35	26	S31 and (elements neur\$4 effectors)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/12/04 12:01
S36	1	S31 and (neur\$4 effectors)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/12/04 12:20
S37	2	"6049793".pn. and (input\$4 interpret\$6)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/12/04 12:56

## EAST Search History

S38	1	"6049793".pn. and (program\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/12/04 12:57
S39	2	"6049793".pn. and output\$5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/12/04 13:01
S40	7	S32 and graph\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/12/04 13:02
S41	4	S32 and S27	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/12/04 13:02
S42	9	S40 S41	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/12/04 13:02
S43	2	S40 and S41	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/12/04 13:03
S44	4	S43 S41	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/12/04 13:50
S45	1150	706/13,15,26-27,38-39.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/12/04 13:51
S46	0	S31 and S45	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/12/04 13:51

## EAST Search History

S47	13	706/13.ccls. and 706/15,26-27,38-39.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/12/04 13:51
S48	10	S26 and S47	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/12/04 13:51
S49	51993	effector	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/08/18 16:57
S50	655	effector with machine	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/08/18 16:57
S51	261	hardware same S49	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/08/18 16:57
S52	21	hardware same S50	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/08/18 17:02
S53	247	S51 and (fire firing meta static thresh\$2old design\$4 software)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/08/18 16:59
S54	220	S51 and (interpret\$6 translat\$4 graph module node connection amplitude "pulse width" conduction evolv\$6)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/08/18 17:00

## EAST Search History

S55	3	S51 and (sub\$1thresh\$2old)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/08/18 17:01
S56	129	S53 and S54 and (@pd<"20030324" @ad<"20030324")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/08/18 17:06
S57	18	S52 not S55	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/08/18 17:02
S58	123	S56 not (S55 S57)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/08/18 17:06
S59	1922	hardware with (neur\$4 effectors)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/11/30 12:20
S60	291	static adj program	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/11/30 12:20
S61	1061	((meta dynamic) adj program) meta\$1program	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/11/30 12:21
S62	32	pulsed near3 neur\$4 near3 network	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/11/30 12:22

## EAST Search History

S63	0	(S60 S61) and S62	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/11/30 12:22
S64	1	S59 same (S60 S61)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/11/30 12:23
S65	19478	program with architecture	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/11/30 12:23
S66	424	S65 with (chang\$4 alter\$4 altr\$6 dynamic\$5 modif\$4 modification) with (execut\$5 runs running)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/11/30 12:25
S67	1	S66 and (S59 S62)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/11/30 12:46
S68	1	S64 S67	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/11/30 12:26
S69	331	sequenc\$3 with (firing fire) with represent\$7	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/11/30 12:27
S70	0	S69 same (S59 S62)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/11/30 12:28

## EAST Search History

S71	6	S69 and (S59 S62)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/11/30 12:28
S72	14	S69 same (neur\$4 effector)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/11/30 12:28
S73	15	S71 S72	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/11/30 12:32
S74	31	(effector with machine).clm.	US-PGPUB	OR	ON	2007/11/30 12:42
S75	4	(pulsed with neur\$4 with network).clm.	US-PGPUB	OR	ON	2007/11/30 12:39
S76	34	(((static meta dynamic) adj program) meta\$1program).clm.	US-PGPUB	OR	ON	2007/11/30 12:39
S77	9	(sequenc\$3 with (firing fire) with represent\$7). clm.	US-PGPUB	OR	ON	2007/11/30 12:39
S78	814	(program with architecture).clm.	US-PGPUB	OR	ON	2007/11/30 12:39
S79	1	(S74 S75) and S76	US-PGPUB	OR	ON	2007/11/30 12:40
S80	0	(S74 S75) and S77	US-PGPUB	OR	ON	2007/11/30 12:40
S81	0	(S74 S75) and S78	US-PGPUB	OR	ON	2007/11/30 12:40
S82	39	(S78 same ((chang\$4 alter\$4 altr\$6 dynamic\$5 modif\$4 modification) with (execut\$5 runs running))).clm.	US-PGPUB	OR	ON	2007/11/30 12:41
S83	0	(S74 S75) and S82	US-PGPUB	OR	ON	2007/11/30 12:41
S84	1	(hardware with (S74 S75)).clm.	US-PGPUB	OR	ON	2007/11/30 12:42
S85	2	S79 S84	US-PGPUB	OR	ON	2007/11/30 12:43
S86	1277	706/13,15,26-27,38-39.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/11/30 12:48
S87	34	(((static meta dynamic) adj program) meta\$1program).clm.	US-PGPUB	OR	ON	2007/11/30 12:45
S88	9	(sequenc\$3 with (firing fire) with represent\$7). clm.	US-PGPUB	OR	ON	2007/11/30 12:45
S89	814	(program with architecture).clm.	US-PGPUB	OR	ON	2007/11/30 12:45
S90	39	(S89 same ((chang\$4 alter\$4 altr\$6 dynamic\$5 modif\$4 modification) with (execut\$5 runs running))).clm.	US-PGPUB	OR	ON	2007/11/30 12:45

## EAST Search History

S91	1	(S87 S88 S89 S90) and S86	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/11/30 12:49
S92	1922	hardware with (neur\$4 effectors)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/11/30 12:47
S93	291	static adj program	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/11/30 12:47
S94	1061	((meta dynamic) adj program) meta\$1program	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/11/30 12:47
S95	32	pulsed near3 neur\$4 near3 network	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/11/30 12:47
S96	1	S92 same (S93 S94)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/11/30 12:47
S97	19478	program with architecture	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/11/30 12:47
S98	424	S97 with (chang\$4 alter\$4 altr\$6 dynamic\$5 modif\$4 modification) with (execut\$5 runs running)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/11/30 12:47

## EAST Search History

S99	1	S98 and (S92 S95)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/11/30 12:48
S10 0	331	sequenc\$3 with (firing fire) with represent\$7	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/11/30 12:47
S10 1	0	S100 same (S92 S95)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/11/30 12:47
S10 2	6	S100 and (S92 S95)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/11/30 12:47
S10 3	1	(S96 S99 S101 S102) and S86	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/11/30 12:50
S10 4	122	706/13,27,39.ccls.	US-PGPUB	OR	ON	2007/11/30 12:53
S10 5	1	S104 and (S87 S88 S89 S90 S96 S99 S101 S102)	US-PGPUB	OR	ON	2007/11/30 12:53

NPL search.txt

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Google Scholar 7/2/2007 (-2003)

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evolving pulsed neural network

evolving "pulsed neural network"

Neural Network Capable of Universal Approximation

~evolve Pulsed Neural Network Universal Approximation

evolving "pulsed neural network" hardware

~evolve Pulsed Neural Network Universal Approximation +hardware

jgallagh@cs.wright.edu pulsed

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Google Scholar 7/3/2007 (-2003)

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evolvable vlsi (pulsed | spiked) "neural network"

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Google Scholar 8/16/2007 (-2003)

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module "neural network"

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Google Scholar 11/20/2007 (-2003)

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+~evolve +~(pulsed | spiked) +"neural network" +~(analog | hardware | transistors | circuits | VLSI) +~program

~evolve +"neural network" +~(analog | hardware | transistors | circuits ) +"firing representations"

+~evolve +~(pulsed | spiked) +"neural network" +~(analog | hardware | transistors | circuits | VLSI) +~(on-line | online | "on line")

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Google Scholar 11/30/2007 (-2003)

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+~(pulsed | spiked) +"neural network" +~(analog | hardware | transistors | circuits | VLSI) +("static program" | "meta program" | metaprogram | "dynamic program")